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Abstract of Disclosure

The invention provides a method and apparatus for maintaining the force, or torque, delivered by a variable reluctance motor as the speed of the motor increases. The

5 method comprises the steps of sensing the speed of the motor and
varying the number of turns of the motor's phase coil based on the sensed speed. The
apparatus includes a motor speed sensor for sensing the speed of the motor and an
inductance switch for switching the number of turns of the phase coil from a first value
to a second value based on the sensed speed. One embodiment of the invention
10 includes an inductance compensation circuit to compensate for the change in load
inductance when the number of turns of the phase coil is switched.